Imagine.

Roland®

Pro4
Print&Cut SOLJETPro4 XR-640

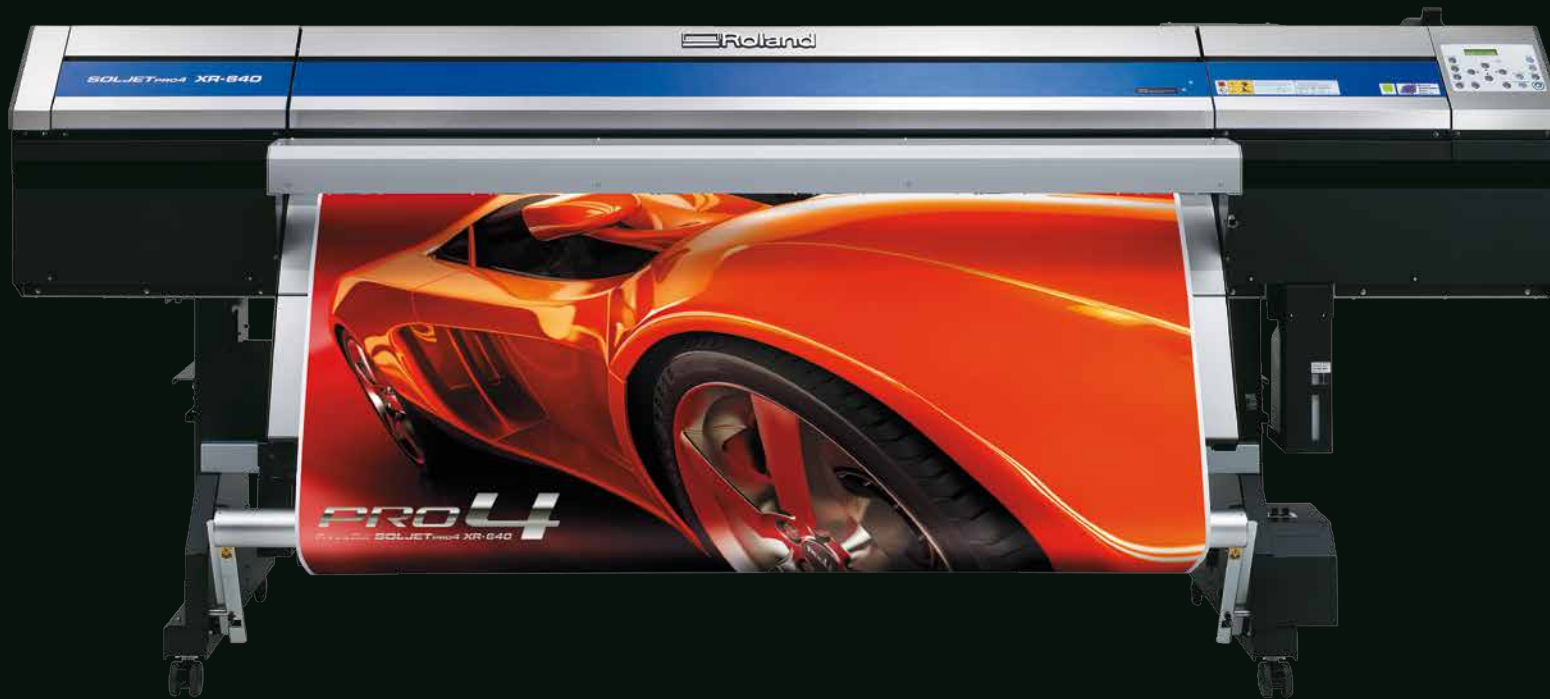# CREATIVE FORCE

This powerhouse gives shape to all of your creative ideas

The SOLJET PRO 4 XR-640 is Roland DG's widest and fastest printer/cutter ever. You can trust its exceptional print quality, versatility and efficiency and leave your competitors in the dust.

Printing and contour cutting with a single unit · 162.5 cm (64") wide · Latest print heads · ECO-SOL MAX 3 ink · Metallic, white and light black

SOLJET PRO4 XR-640

Nine ink colours and four possible colour configurations

7 colours
CMYKLcLm + light black (Lk)

8 colours
CMYKLcLm + light black (Lk) + metallic silver (Mt)

CMYKLcLm + light black (Lk) + white (Wh)

CMYKLcLm + metallic silver (Mt) + white (Wh)

Printing and cutting in one continuous workflow

The XR-640 combines two functionalities. The unit prints the jobs and then cuts them automatically. It makes it possible for you to make all kinds of stickers, labels, heat transfers for textile, etc., quickly and efficiently. In addition, you only need one unit, which saves you space, electricity and money.

Newest print heads for exceptional print quality

You expect outstanding print quality. The XR-640 delivers! The unit is equipped with the latest print head technology. This guarantees impeccable print quality. The print heads fire drops in seven different sizes, which optimizes the image quality for the material and the resolution that you select. In combination with the new ink, the print heads ensure that the smallest details are printed precisely.

ECO-SOL MAX 3 for intense colours

ECO-SOL MAX 3 is the latest generation of Roland DG's award-winning eco-solvent ink. The ink scores very high in all important areas: outdoor durability, scratch resistance, chemical resistance, and colour range. In addition, the ink is compatible with the most extensive range of print media in the market. With its new composition, the ink creates even sharper images. The ECO-SOL MAX 3 is also nickel-free.

Light black makes the difference

ECO-SOL MAX 3 is available in light black. This colour delivers smooth grey scale gradations. It also improves the stability of skin tones and other natural tints. That brings all of the details expressively out in all of your posters, backlit displays, automobile stickers, etc.
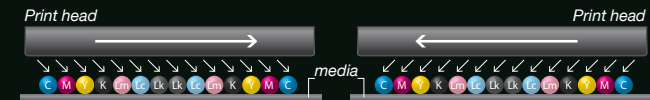
White and metallic silver for profitable new applications

With metallic silver, you can create more than 500 metallic colours. The new generation of metallic ink contains more reflective pigments, giving you stronger, glossy colours. The composition of the white ink has also been changed. The opacity is significantly higher, which improves the brightness of the text and images.

Very good quality at high printing speeds

The XR-640 is equipped with two in-line print heads. The colours are arranged in mirrored order, which gives consistent quality during bi-directional printing. The Roland Intelligent Pass Control technology improves the quality even more by checking the placement, quantity and density of the ink drops even more precisely. To sum up, the XR-640 delivers high quality, even at higher printing speeds. In 'high speed' mode, the printing speeds can get up to 21.6 m²/hr for both vinyl and banner, for example. In spite of those higher speeds, the print quality is sublime.

The colours are arranged in mirrored order, so that the ink is applied in the same sequence in both directions. That gives an accurate reproduction of colours in all printing modes.

Roland VersaWorks® supports PANTONE® colour library

The XR-640 comes standard with Roland VersaWorks. This RIP and print-management software now supports the use of the PANTONE® colour library. PANTONE spot colours in a design are automatically converted to their CMYK values and then linked precisely with a colour within the range of the ECO-SOL MAX 3 ink set. Matching the right colour has been simplified significantly with this process. You can also replace spot colours with colours of your choice from the Roland Colour System Library. That contains more than 1,000 standard colours and 512 metallic colours.

Optional DU-640 drying

The XR-640 has an integrated triple heating system. You can install an additional drying to speed up the drying process, however. Roland DG recommends the DU-640 for use with the take-up system in combination with high production speeds or if you are using white or metallic ink.

SOLJET*PRO4* **XR-640**

Specifications

Printing / cutting method		Piezo ink-jet / media-moving method
Media	Width	315 to 1,625 mm
	Thickness	Maximum 1.0 mm with liner, for printing Maximum 0.4 mm with liner and 0.22 mm without liner, for cutting
	Roll outer diameter	Maximum 210 mm
	Roll weight	Maximum 40 kg
	Core diameter	76.2 mm or 50.8 mm
Printing / cutting width*1		Maximum 1,600 mm
Ink	Cartridges	500-cc cartridge (cyan, magenta, yellow, black, light cyan, light magenta, light black) 220-cc cartridge (metallic silver, white)
	Colours	Seven colours (cyan, magenta, yellow, black, light cyan, light magenta, light black) or, Eight colours (cyan, magenta, yellow, black, light cyan, light magenta, light black, white) or, Eight colours (cyan, magenta, yellow, black, light cyan, light magenta, light black, metallic silver) or, Eight colours (cyan, magenta, yellow, black, light cyan, light magenta, metallic silver, white)
Printing resolution (dots per inch)		Maximum 1,440 dpi
Cutting speed / Blade force		10 to 600 mm/s (Media-feed direction: 10 to 300 mm/s) / 30 to 300 gf
Cutting blade		Type: Roland CAMM-1 series compatible / Blade offset: 0.000 to 1.500 mm
Software resolution (when cutting)		0.025 mm/step
Distance accuracy (when printing) *2*3		Error of less than ±0.3 % of distance travelled, or ±0.3 mm, whichever is greater
Distance accuracy (when cutting) *2		Error of less than ±0.4 % of distance travelled, or ±0.3 mm, whichever is greater When distance correction has been performed (when the setting for [CUTTING MENU] - [CALIBRATION] has been made): Error of less than ±0.2 % of distance travelled, or ±0.1 mm, whichever is greater
Repeatability (when cutting)*2*4		±0.1 mm or less
Alignment accuracy for printing and cutting *2*5		±0.5 mm or less
Alignment accuracy for printing and cutting when reloading media *2*6		Error of less than ±0.5 % of distance travelled, or ±3 mm, whichever is greater
Dryer unit		Heating type, setting range for the preset temperature: 30 to 55C°
Ink-fixing device *7		Print heater / preheater, setting range for the preset temperature: 30 to 50C°
Connectivity		Ethernet (10BASE-T/100BASE-TX, automatic switching)
Power-saving function		Automatic sleep feature
Power requirements		AC 100 to 120 V ±10 %, 12 A, 50/60 Hz or AC 220 to 240 V ±10 %, 6.5 A, 50/60 Hz
Power		During operation: Approx. 1,600 W / Sleep mode: Approx. 47 W
Acoustic noise level		During operation: 65 dB (A) or less / During standby: 45 dB (A) or less
Dimensions / Weight (with stand)		2,948 (W) x 1,211 (D) x 1,260 (H) mm / 205 kg
Environmental	Power on	Temperature: 15 to 32°C (20°C or more recommended), humidity: 35 to 80%RH (non-condensing)
	Power off	Temperature: 5 to 40°C, humidity: 20 to 80%RH (non- condensing)
Accessories		Exclusive stands, power cord, blade, blade holder, media clamps, media holder, replacement blade for separating knife, software RIP, User's Manual, etc.

*1 The length of printing or cutting is subject to the limitations of the program.
*2 Media type: Media specified by Roland DG Corp. Temperature: 25°C, humidity: 50%. Roll media must be loaded correctly. Applicable when all pinch rollers available to the media width are used. Side margins: 25 mm or more for both the left and right margins. Front margin: 35 mm or more. Excluding expansion/contraction of the media. Not assured when the print heater or dryer is used. All correction or adjustment function of this machine has been made properly.
*3 Print travel: 1m
*4 [PREFEED] menu item must be set to "ENABLE." Range for assured repetition accuracy. For media with a width exceeding 610 mm: Length 4,000 mm. For media with a width of 610 mm or less: Length 8,000 mm
*5 Provided that media length is under 3,000 mm. Excludes the effects of slanted movement and of expansion and contraction of the media.
*6 Data size:1,000 mm in the media-feed direction, 1,600 mm in the carriage-movement direction. No lamination. Automatic detection of crop marks at 4 points when media is reloaded. During cutting, [PREFEED] menu item must be set to "ENABLE." Excluding possible shift caused by expansion/contraction of the media and/or by reloading the media.
*7 Warm-up is required after power up. This may require 5 to 20 minutes, depending on the operating environment. Depending on the ambient temperature and media width, the preset temperature may fail to be reached.

Ink

ECO-SOL MAX	ESL5-5CY	Cyan, 500cc
	ESL5-5MG	Magenta, 500cc
	ESL5-5YE	Yellow, 500cc
	ESL5-5BK	Black, 500cc
	ESL5-5LC	Light cyan, 500cc
	ESL5-5LM	Light magenta, 500cc
	ESL5-5LK	Light black, 500cc
	ESL4-MT	Metallic silver, 220cc
	ESL4-WH	White, 220cc
Cleaning cartridge	ESL4-CL	Cleaning liquid, 1pc.
Blades	ZEC-U5025	For thick, reflective and fluorescent vinyl, 5pcs.
	ZEC-U5022	For thick, reflective and fluorescent vinyl, 2pcs.
Blade Holders	XD-CH2	Blade holder with blade extension adjuster, made of aluminum
	XD-CH3	Blade holder with blade extension adjuster, made of resin

Optional DU-640 heater

Dryer unit		Heating type (with blower fan), setting range for the preset temperature: 30 to 55°C *1
Power requirements *2		AC 100 to 120V ±10%, 5 A, 50/60 Hz or AC 220 to 240 V ±10%, 3 A, 50/60 Hz
Power consumption		Approx. 650 W
Weight		26 kg
Environmental	Power on	Temperature: 15 to 32°C (20°C or more recommended), humidity: 35 to 80% (no condensation)
	Power off	Temperature: 5 to 40°C, humidity: 20 to 80% (no condensation)
Included items		Power cord, arms, bushing, cable clamps, stays, hexagonal wrench, bolts, washers, user's manual

*1 Warm-up is required after powerup. This may require 5 to 20 minutes, depending on the operating environment.
    Depending on the ambient temperature and media width, the preset temperature may fail to be reached.
*2 Be sure to connect the machine to an unshared electrical circuit. Be sure to verify the amperage of the circuit breaker or fuse used.

Roland VersaWorks System Requirements

Operating system	Windows® 7 Professional or Ultimate (32/64-bit); Windows Vista® Business/Ultimate (32/64-bit); Windows® XP Professional Service Pack 2 or later (32/64-bit)
CPU	Core™2 Duo, 2.0 GHz or faster recommended
RAM	2 GB or more recommended
Video card and monitor	A resolution of 1,280 x 1,024 or more recommended
Free hard-disk space	40 GB or more recommended
Hard-disk file system	NTFS format
Optical drive	DVD-ROM drive

*Roland VersaWorks® is a 32-bit application, which runs on 64-bit Windows® with WoW64 (Windows 32-bit on Windows 64-bit).

Application software

Adobe® Illustrator® 10, CS, CS2, CS3, CS4, CS5 / CorelDRAW® 11, 12, X3, X4, X5

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